ABSTRACT OF THE DISCLOSURE

Transcoding of a video stream to reduce the size of the video stream with little, if any, loss in video quality after subsampling. After accessing a video stream of video pictures (i.e., video frames or fields), the blocks of the video picture are each subject to matrix pre-multiplication and post-multiplication. Such matrix multiplication does degrade the video quality if subsampling was not to occur. However, the pre-multiplication and post-multiplication matrices are calculated based on the subsampling matrices that will be used to ultimately subsample the video stream such that after subsampling eventually occurs, the matrix multiplications result in minimal loss of video quality.

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